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Photo Play SPIRIT 2.1





www.photoplay.com

Operation Instructions

POSITIV

SANJES

POSITIVE GAMES

PHOTO PLAY



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1. Operating Instructions

Always keep these operating instructions in a safe place for later use!

1.1 Introduction

These operating instructions apply especially to Photo Play touchscreen units. Replacement part numbers, service instructions and settings will be covered in more detail in a separate chapter. Should you encounter difficulties with regard to language or otherwise it is highly recommended to make use of the technical assistance provided by your dealer. The Photo Play is exclusively used as entertainment equipment!

Warning:

- Any changes to this unit require the written permission of the manufacturer.
- Subject to changes in the interest of technical progress, however no obligation for upgrading!
- Copyright by funworld ag, Photo Play Straße 1, A-4861 Schöfling, Austria.

funworld and their general importer will not accept any liability in the case of improper usage.

1.2 Safety instructions:



Failure to observe this may result in injury or death.

1.2.1 General explanations:

Work on the Photo Play unit may only be performed by authorised technical personnel so as to prevent injuries to persons or permanent damage to the unit. As an example, the possible results could be:

- Invalidity of the warranty
- Expensive repairs
- Replacement of components

The owner of the unit must undertake to ensure that all persons are familiar with the Photo Play prior to installation, start-up, maintenance and repair of the unit. Furthermore it is obligatory for him to have read and understood the technical description. In addition he must ensure that the persons are suitably qualified. Only these persons must be in possession of the key for the covering hood. The operating instructions must be kept in a safe place within easy reach for later use.

No liability for accidents, injuries and damages will be accepted in the case of incorrect usage such as for instance:

- Unauthorised conversion
- Incorrect handling
- Failure to observe the operating instructions!

Please contact your dealer should you have questions or doubts. You are requested to strictly adhere to the safety instructions since these concerns your own safety!

1.2.2 General safety instructions:

The unit must only be started after thorough perusal of the relevant description. Operating voltage and frequency must correspond to the values specified on the rating plate.

Connect the Photo Play Unit only to a properly installed, protected and earthed mains socket!

If instructions necessary for the safety are illegible or damaged, these must be replaced immediately. The Photo Play is only suitable for installation in closed (covered) and dry rooms. The Photo Play unit must be installed on firm and level ground. Incorrect installation may result in the unit tipping over. This may result in an implosion of the picture tube (not with Photo Play SMART)



Electric shock hazard

Any repair work (i.e. opening the unit) must only be performed by specially trained technical personnel. Components could still be live even after pulling the main's cord. Please observe the safety instructions to avoid injuries.



Fire hazard

Never cover the ventilation slits. The ambient temperature should not exceed 35°C. Do not overheat or overload the mains circuit.

In the case of a defect, always pull the mains cord immediately and have the repair carried out by authorised technical personnel.

- Always perform repairs on the dead system.
- Use only original replacement parts
- Pull the mains plug only with the unit switched off.

Failure of observing the safety instructions may pose serious danger!

1.3 Unit check:

1.3.1 Inspection after delivery:

Check the Photo Play units for possible transport damages immediately on delivery. Visible damages must be noted on the delivery documents with the sentence "conditionally excepted" in order to secure your claims.

1.3.2 Unit check

Ensure that the mains plug including cable is in accordance with the national standard.



Electric shock hazard

The main's plug must only be connected by authorised technical personnel.

1.4 Transport and place of installation:

The place of installation must be enclosed (covered) and dry. It is strictly forbidden to install the Photo Play units in moist / wet rooms. This could lead to accidents (electrical shock).

Prior to installation, please check the following:

- Level underground of adequate carrying capacity.
- Free access to the unit.
- Ventilation slits are not blocked.

Do not install Photo Play units...



...in the vicinity of vitally necessary installations such as:

- Emergency exits
- Fire extinguishers
- First aid kits



...heat sources such as

- Heater elements
- Air conditioning systems
- Sun terraces
- Severe solar radiation

...in severe environmental conditions such as



- Dust and dirt
- Rain and wet
- · Severe magnetism or radio waves
- Heat (ambient temperature above 35°C)

Warning: The socket must be well earthed! Install the power supply cable so as to exclude injuries and damage to the mains cable.

Mains cable damage can be caused by:

- Kinking of the cable
- · By placing heavy parts on the cable

1.5 Installation and Assembly:

Plug in the mains supply cable only after completed installation! Allow the Photo Play unit to acclimate for at least four hours.

1.5.1 Assembly

The Photo Play unit is supplied completely assembled. No assembly work is required.

1.6 Start-up:

After completed unit check (see paragraph 1.3), switch on the unit. Immediately pull the mains plug if there are signs of smoke development, whistling, pungent odour. If you encounter problems, please contact your general importer immediately.

The following hazards are possible.



Fire hazard

Immediately pull the mains plug if there are signs of smoke development!



Electric shock hazard

Observe safety instructions!

The specific settings for the unit are described in the "Technical Description" (Paragraph 3).

1.6.1 Activation of the Photo Play NET (see enclosure Photo Play net activating)

1.7 Inspection, maintenance and care:

1.7.1 General Instructions:



Electric shock hazardObserve safety instructions!

Verify that mains socket is well earthed. Immediately shut down the unit if there is visible damage to the mains power supply cable of the Photo Play unit. Repairs to the mains cable must only be carried out by qualified electrical personnel. Verify presence and legibility of warning instructions and rating plate.

1.7.2 Maintenance

The Photo Play unit does not require any maintenance.

Warning: There are various adhesive labels and printed texts, which could be subject to, wear. Please check on a regular basis to ensure that the safety instructions are complete and contact your general importer if you have any requirements in this regard.

1.7.3 Care

Clean the casing and the touchscreen glass with a soft cleaning cloth and a cleaning agent (non-acetic).

1.8 Service:



Electric shock hazard Observe safety instructions!

1.8.1 Replacement of Components:

- Immediately pull the mains plug
- · Replace parts only with original replacement parts
- The order numbers can be found in the "Technical description" (refer Paragraph 3)

Please contact your general importer if in doubt.

1.9. Taking out of Operation:



1.9.1 Disassembly

Isolate power supply cable from mains and store in cardboard box.

1.9.2 Relocation

Observe paragraphs 1.4, 1.5, 1.6 for re-installation and whenever starting up again.

1.9.3 Disposal



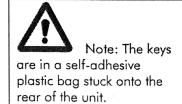
Environmental protection

Please dispose of pallet and cardboard boxes in accordance with the applicable laws.

2. General data

2.1 Supply components

- 1 Photo Play SPIRIT 2.1
- Two sets of keys (cashbox and service)
- Mains power supply cable in the cash box
- Description
- Telephone cable



2.2 General importers of the individual countries:

Under the following address you can find your local General Importer:

www.funworld.at

3. Technical description

3.1 Technical Data:

Voltage:

AC ~220 V/50 Hz(± 10 %)

Power Consumption:

100 VA

Max. Volume Control:

70 dB

Monitor:

19", 0.26mm, resolution: 800x600/85Hz

UL, C-UL, EPA, FCC pt.15 compliant

Operational Conditions:

Relative humidity: 20 % to 80 %

Ambient temperature: 10°C to 35°C

Storing Conditions:

Relative humidity: 20 % to 90 %

Ambient temperature: -25°C to +70°C

Power Supply Unit:

input: AC 220 V/50 Hz

output: DC +5V/20A Power Good Signal (red) (orange)

-5V/0,5A

(white) (yellow)

+12V/8A -12V/0,5A

(blue)

Measurements ($h \times w \times d$):

Photo Play SPIRIT 2.1: 153 x 58.5 x 70 cm

Net weight:

Photo Play SPIRIT 2.1: 95 kg

3.2 Programme sequence, programme settings/set-up

Having been successfully started, the Photo Play unit is ready for operation, displaying various images and pre-defined advertising on the screen. As soon as the Photo Play unit is in standby, coins can be inserted at any time. In standby mode, the various groups of games appear irrespective of whether there are credits or not. In order to select a group, the player touches the image of the group on the screen. The games of this group will become visible. The individual games in turn are selected by touching the Game field on the monitor. The starting screen of each game appears after selection. With some games it is also possible to select from several players. If sufficient credits are available for the selected game, the game may be started.

Info-Button:

By touching the info-button on the screen, more information is made available to the player.

All time High-Score: here the highest scores gained by the players are shown.

Friends of Photo Play: Information about Friends of Photo Play.

Contacts: Information about our General Distributors.

High-score screen,

At the end of the game the player may enter his name in a high-score list provided the score is high enough (dependent on the previously achieved game scores). The player may attempt to become top scorer in his favourite game.

Set-up:

Press the "Set-up" button in order to activate the setup screen. This button is located below the screen, behind to the data print connector.

The setup starting screen has five selection fields:

1. Game settings: Selection of games and credits / game.

2. Accounts/statistics: Accessing the booking and statistics / data print.

3. Photo Play technical: Selection from various test options.

4. Advertising: Input of advertising pages.

5. Miscellaneous settings: Input of codes

1.) Games settings:

- Games (credits): By marking the desired game it is possible to select the credit setting or activation (enabled/disabled) for that game. Here it is also possible to set the games to free game (credit 0 = free game). In addition it is possible for instance for testing purposes to set all games simultaneously to the desired credit (settings for all games 0 = free game)
- **fun.link free credit**: Only possible in fun.link mode. It is possible to enable or disable to obtain the fun.link free credit. If at least 4 players are playing fun.link, the winner will receive a free credit provided the fun.link free credit is enabled.
- **High-score delete mode:** Set whether to delete the high-score automatically or after a certain time, or whether to reset manually.
- Delete all high-scores: The high-scores of all players are deleted.
- Delete individual high-scores: The high-score of the respective player is deleted by touching.

2.) Accounts / statistics

A summary of accounts and statistics is available by selecting this field.

Short summary:

- Financial account
- Value settings
- Game statistics
- Photo Play utilisation
- Unit number

- Data print
- Deleting accounts and statistics
- Deleting accounts
- Deleting statistics
- Deleting credits
- **Financial accounts**: This serves to read off the quantity inserted per coin. It is possible to see the total quantity of coins inserted.
- Value settings: In the Photo Play setup it is possible to freely set the bonus system. The bonus stages allowed are left up to the installer.

Photo Play bonus system setting: There are two basic settings; it is up to the individual to customise the system to his requirements. It is possible to process a list structured as follows:

Insertion (Euro)	Credits	
1	1	
2	3	
3	5	

Game costs 1 Euro

In order to prevent an incorrect entry by the user, the setting is carefully checked for correctness. The most common error made is a bonus stage at which the player has to pay more than at the previous bonus stage. This means: if you were to enter for instance only 25 credits for 20 Euro in the upper list, the Photo Play will recognise that the player would have to pay more for a game with 20 Euro than with 10 Euro. If such an entry is made, you will be requested to change it accordingly.

- Game statistic: This statistic shows how often a certain game has been played (also in %).

 Mark the desired game and press "OK" to be able to read how often one player, two players, three players, four players or > fun.link have played that game. In addition this module also calculates the shortest, average, longest time taken by a player for that game.
- Photo Play utilisation: This statistic provides information on the utilisation of your Photo Play on a certain day, month or throughout the year.
- Unit number: This is where you enter the Photo Play unit number.
- **Data print**: Here you can read the accounts data or the statistics of the individual games by means of a printout. A "data print 3000S" is required for this purpose! This data print is available through your general importer.
- Deleting accounts and statistics: This serves to delete accounts and statistics.
- Delete account: Delete accounts
- Delete statistics: Delete statistics
- Delete credits: Delete possible credits on the unit.

3.) Photo Play Technology

Selecting this field affords a summary of the technical settings available.

Short summary:

- Basic calibration
- Volume control
- Idle music (general)
- Idle music (with time limit)
- Date and time
- Test Screen
- Test credits
- Touchscreen test 1

- Touchscreen test 2
- fun.link test
- Basic Calibration: This setup option serves to calibrate the touchscreen. The screen has to be calibrated when the machine has the normal operation temperature.
 - Press setup button
 - Select "Photo Play technology"
 - Press OK
 - Mark the line "basic calibration"
 - Press OK
 - Touch the picture
 - Touch the point of intersection at the bottom left. Wait for the hairline cross at the top right. Now touch the point of intersection and press the OK button.
- **Volume control**: The volume can be changed by "+" or "-" with " " it is possible to listen to the set volume. Furthermore it is possible to test the loudspeakers on the left and right.
- Idle music (general): This is always played whenever the Photo Play is in "standby" mode. Here it is also possible to enable or disable the idle music.
- Idle music (with time limit): This is played over a certain period of time in "standby" mode (for instance Christmas music from 1 December to 31 December) but only if the idle music (general) has been enabled.
- Date and time: Setting of current date and time.
- **Test screen**: The test screen is required in order to accurately set the picture size and width. Furthermore the three basic colours (red, green, blue) are also displayed. There are various test pictures for the respective colours and settings of the picture. This picture serves only for test purposes!
- **Test credits**: This is used to apply test credits (e.g. for service purposes) to the Photo Play without having such registered in the accounts and on the counter.
- Touchscreen test 1: The point must be exactly under the finger.
- Touchscreen test 2: The finger must be exactly in the centre of the square.
- Photo Play long-term test: On activating the long-term test the Photo Play plays spontaneously until again switched off and on.
- **fun.link test**: This test is only possible in fun.link mode. By sending 100 data packets to the units within the fun.link it verifies whether the fun.link network is OK. A transfer protocol is generated for the sending of the packets, showing possible sources of errors immediately. Fun.link operation may commence when each unit has received all 100 data packets.

4) Advertising:

This selection field permits the user to enter ten advertising pages. Each page contains a maximum of 10 lines and characters depending on the screen width. These 10 lines can be moved over the advertising page as desired. Different colours and sizes and fonts are possible.

Instructions:

- Press setup button
- Select advertising
- Press OK button
- Select advertising page you are now in the input mode.
- Enter a maximum of 10 lines
- By touching a certain selection field you can select the "background" (various motives) and the "display time" (in seconds)
- By touching the "delete" button it is possible to delete certain pages.

5) Miscellaneous Settings

- Installer code: If the installer code is enabled, the most important settings in Setup are protected with this code.
 - **Warning**: Never forget the code you entered, otherwise you have no way of accessing Accounts (except calibrating touchscreen). Should you forget your code you will have to take the hard disk to your general importer.
- **Minimum setup code**: With this code it is possible to set up three adverts and the volume without accessing setup.

Short summary:

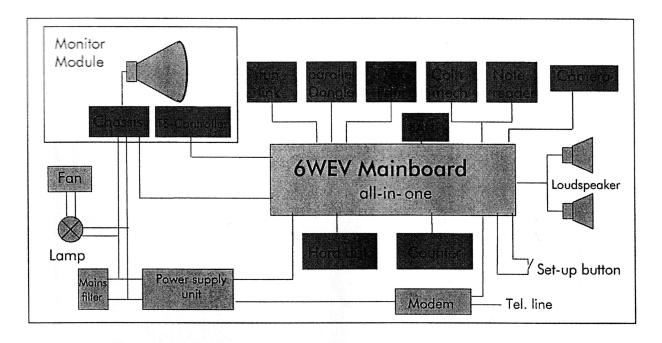
- Setting minimum setup code in setup
- Alternately press (starting screen) the respective flags.
- Enter minimum setup code.
- Enter adverts (maximum 3, see paragraph 4)
- Set the volume (+/- 3 from the default setting in Setup)
- Language setting: Up to 3 languages may be activated depending on the country version.
- Select profile: Various coin profiles or country profiles are available.

3.3 Games:

Programme change: The programme is upgraded by the general agencies of the individual distribution countries! Current programmes can be obtained through the general agents.

3.4 Technical data:

3.4.1 Block diagram



3.4.2 Technical Components

Mainboard:

- all-in-one mainboard AT-form factor
- 333 MHz CPU Pentium compatible
- Fan with CPU temperature control
- Two PCI slots
- AMR slot
- 16MB or 32 MB main memory (SDRAM)
- 4 serial interfaces
- 1 parallel interface
- 2 funworld custom interfaces
- · Cable for serial interface, cable for parallel interface
- 64 bit 2D VGA
- ESS 1869 ISA Audio Chip, 2x 2, 8W sine; SoundBlaster Pro comp.
- Speaker out, Line out, Mic-In

SVGA Monitor:

- Supply AC 90-240 V / 50 or 60 Hz / 150W max.
- OSD control (incl. Size, Position, Rotation, Geometry, Moire, Degauss, Colour temperature)
- Band width: 160 MHz
- Horizontal frequency: 30 96 KHz
- Vertical frequency: 50-160 Hz
- 19" tube, 0.25 dot pitch, Anti Reflection and Anti static coated
- VESA DPMS compatible

Touchscreen: Elo iTouch on-tube system with serial controller

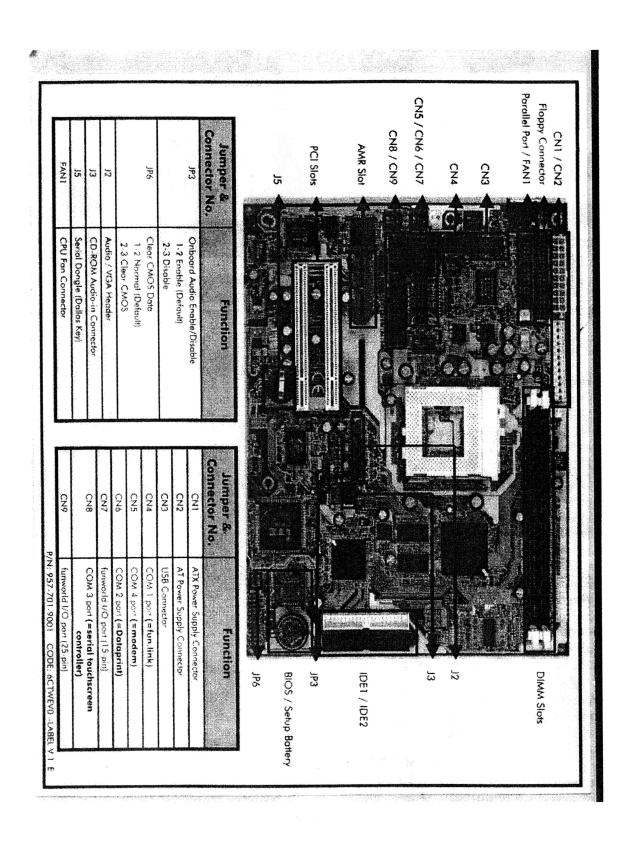
Coin mech options: Electronic coin mech Coin control C120

Electronic coin mech NRI G 13.1001

Electronic coin mech SECCI

Banknote reader: [Banknote Reader SMILE NV4

Mainboard:

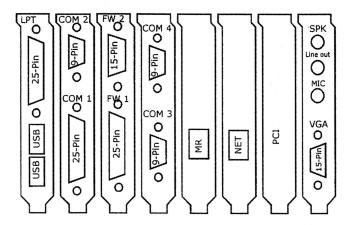


3.4.3 Slot Layout Photo Play SPIRIT 2.1

Connectors on Slotplate:

Name			Place
Keybd.	5pin DIN		0
Power out	3 pin AMP		0
LPT		Slotplate	1
USB			
USB	*		
COM 1	25 pol	Slotplate	2
COM 2	9 pol		
Fun I/O	15 pol	Slotplate	3
Fun I/O	25 pol		
COM 3	9 pol	Slotplate	4
COM 4	9 pol	•	
MR		Slotplate	5
LAN		Slotplate	6
PCI		Slotplate reserved	7
Speaker		Slotplate	8
Mic in		•	
Line out			
VGA			

Slot Layout



3.4.4 BIOS settings

Connect a PC keyboard to the 5-pin DIN-keyboard jack and switch on the unit. During the funworld logo, press the "Del"-key. The BIOS menu appears. Get to the funworld setting via "Load setup defaults"

Set Up Screens

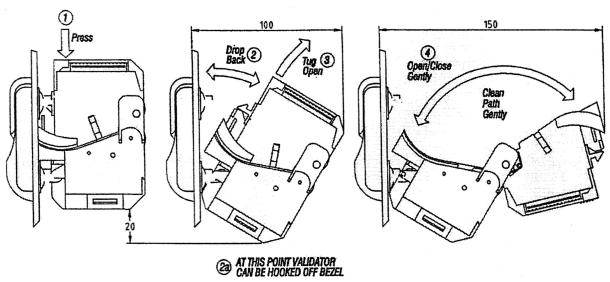
 Integrated Peripherals Power Management Setup PnP/PCI Configurations PC Health Status 	 Set Supervisor passwo Set User password Save & Exit Setup Exit without Saving 	rd
Esc : Quit		Select Item

Date	xxxxxxxx	Item Hel
Time	XXXXXXXX	
IDE Primary Master	Press Enter	
IDE Primary Slave	Press Enter	
IDE Secondary Master	Press Enter	
IDE Secondary Slave	Press Enter	
Drive A	None	,
Drive B	None	
Video	EGA/VGA	
Halt On	No Errors	And the second s
Base Memory		
Extended Memory		
Total Memory		

CMOS Setup Utility- Copyright IDE Primary Master	© 1984 – 20	000 Award Software	
IDE HDD Auto Detection		Press Enter	Item Help
IDE Primary Master		Auto	
Access Mode		Normal	

 IDE HDD Block Mode	Enabled	Item Help
On-Chip Primary PCI IDE	Enabled	
On-Chip Secondary PCI IDE	Enabled	
IDE	Auto	
 IDE	Auto	
USB Controller	Disabled	
Funworld I/O Adress	210h	
Onboard Serial Port 1	3F8h / IRQ4	
Onboard Serial Port 2	2F8h / IRQ3	
Onboard Serial Port 3	3E8h / IRQ3	
Onboard Serial Port 4	2E8h / IRQ10	
Parallel Port Mode	EPP 1.7	

3.4.5 Banknote reader NV4



I. Programming

The NV4 banknote reader is normally supplied ex works to a pre-programmed status. The electronic pre-programming can ensure a constant high rate of acceptance, which is around 95% approx., dependent on the currency involved.

The banknote reader can still be manually programmed, independent of any previous preprogramming. And, any subsequent, unauthorized manually manipulative programming can be prevented by means of employing an appropriate coding.

1.1 Programming by means of a personal computer or laptop equipment

The most simple and rapid method of programming the NV4 banknote reader with a new issue of banknote or with a completely different currency, is to use the PC Download Software. For this purpose, the Windows 95 operating system and, at least a Pentium 75 mHz processor will be required, having a free serial interface.

The PC Download Software, which includes the various ex gratia data records required for a variety of currencies together with the associated test box, can also be ordered from DYNAMICS Chinatec Systemtechnik GmbH (Dynamics Chinatec Systems Inc.).

I.II Programming directly into the NV4 banknote reader (manually)

When the banknote reader is to be manually programmed, a larger amount of data material is to be available for the banknotes to be programmed. We would recommend 30 to 40 items per banknote value. Before commencing programming, it is recommended to erase the relative channel, otherwise the subsequently programmed banknote will be added to the older banknotes of the channel previously selected. This would mean, that both issues of banknote would then become acceptable on the one channel.

I.II.I Erasing channels

Caution: the erasing of a channel is definitive and final and cannot then be subsequently reversed!

Set the wiper switch to TEACH In this mode, no channel will be activated and shown by the lighting up

of a LED. This is to avoid the occurrence of any unwanted programming

as a result of a mistaken switchover from "RUN" to "TEACH"

SELECT Key

The required channel can be activated by pressing on the "SELECT" Key until the relative LED lights up. Then, keep the "SELECT" Key depressed

until the LED extinguishes again after around 6 seconds.

LED lights up again

This signals that the channel is erased and new programming parameters can then be entered.

I.II.II Programming a new banknote

Before the NV4 can be newly programmed, check that no possible limitations already exist on the list of qualified banknotes in regard to the currency concerned. If the banknote is not listed, this means that no tests have been carried out. For this reason, any possible problems will not show up. Users should take care to ensure, that a non-programmed banknote reader will always correspond to their own requirements and security standards.

Preparations:

Ensure that the NV4 is switched on. The VCOM should be operative and the block lines on "LOW" status. At least 30 banknotes will be required for programming purposes, preferably use 40 banknotes. Of these:

Uncirculated mint notes:

15 items

Circulated used banknotes:

25 or more (circulated banknotes in average condition)

The following should not be used for programming purposes:

untypical, old or worn out banknotes;

- banknotes, where corners or fragments are missing;
- banknotes with deep fold marks or turned-up corners;
- banknotes repaired with adhesive tape.

The correct selection of the banknotes used for programming is vital for the degree of acceptance under conditions of subsequent operations. Sort the banknotes for programming purposes at the same time and in the same direction. Those banknotes having the same value but a different design and image, should not be mixed up together. The different designs should be programmed on separate pages in the same channel.

Channel selection and subsequent programming:

The display illumination lights up

This indicates, that the equipment has electric power.

Set the wiper switch to TEACH

Keep pressing on the "SELECT" Key until the required channel is signaled by the burning of the relative LED. Then insert the appropriately prepared banknote as straight and centered as

possible.

Obverse and reverse directions:

All banknotes should have the same obverse side upwards and show in the same direction. The first banknote must have left the banknote reader before attempting to insert the next. Dependent on the number of programmed banknotes, the

procedure can be repeated with the same banknote.

SELECT Key

Press briefly on the key. The channel LED will flash once to signal, that the data of that obverse side of the banknote have

been saved.

Repeat the programming procedure in the reverse direction.

SELECT Key

Briefly press the key and the side will be saved.

Repeat the programming with altered read-in direction.

Set wiper switch to RUN

The channel display LEDs are now in the SECURITY Mode and the acceptance band width is now shown by means of the LEDs:

(LOW, STANDARD, HIGH).

SELECT Key

Press down on the key until the required acceptance band width

is displayed:

(LOW, STANDARD, HIGH)

When the fourth LED, "INHIBIT", illuminates, the pre-set

channel can be blocked.

LED flashes

The STANDARD mode of acceptance bank width is operational when the wiper switch has been set to RUN. If this setting is not altered, the LED will flash after five seconds. The LED will cease

flashing after 3 seconds and the banknote reader is then operational. Should the acceptance band width be altered, the relative LED will also flash and the banknote reader will become operational when the LED ceases to burn.

In the cases of some currencies, it can occur, that banknotes might be rejected in spite of correct insertion in the banknote reader. This can be the result of changes in the characteristics and colorings of the banknote with increasing age. It is therefore recommendable to sort the banknotes according to various degrees of condition and to program all such conditions separate on different pages.

WARNING: When the banknotes are inserted too rapidly or if the information of the banknote cannot be correctly read by the banknote reader, then all the LEDs will light up together. This means, that the banknote was not accepted and, that a repeat insertion is necessary.

I.II.III Programming banknotes of the same value on one channel

When a banknote is replaced with a new issue, e.g. FIM 50.00 "old" is replaced with a FIM 50.00 "new", both issues of banknote usually, as a rule continue in circulation. The possibility exists of also programming the "new" banknote manually into the NV4, so that the NV4 will accept both issues of banknote during the transition time period. (the programming can also be effected, of course with the Download Software).

As many pages as required can be programmed per channel, so long as the total number of pages of sixty three pages on all channels is not exceed. This means, that fifteen pages per channel can be occupied (63 pages / 4 channels = 15.75 pages). If, for example, the "old" FIM 50.00 banknote is stored on Channel 2, then the "new" FIM 50.00 banknote can then be subsequently programmed without difficulty.

Please carry out the programming as described in Chapter 1.

I.II.IV Checking the band width setting

The NV4 possesses three degrees of sensitivity. The first degree of sensitivity (LOW) corresponds to a broad band width and will ensure a high acceptance rate together with a perhaps rather insufficiently low rejection rate of falsifications. The middle degree of sensitivity is adopted as a STANDARD setting and is recommend for most applications. The third degree of sensitivity (HIGH) will render the acceptance rate somewhat lower, but critical falsifications will be more readily rejected.

Set the wiper switch to TEACH SELECT Key

Set the wiper switch to RUN

Use to select the verification channel.

The pre-set sensitivity LOW, STANDARD, HIGH will be signaled by the relative LED. The alteration of the band width can now be effected by depressing the SELECT Key.

The SELECT Key is depressed until the degree of sensitivity (LOW/STANDARD/HIGH) is indicated by the illumination of the relative LED.

When the LED is extinguished, the NV4 will be able to recognize and accept banknotes by means of the selected band width.

I.II.V Blocking a channel (internally)

Set the wiper switch to TEACH SELECT Key

Set the wiper switch to RUN

Select the verification channel required.

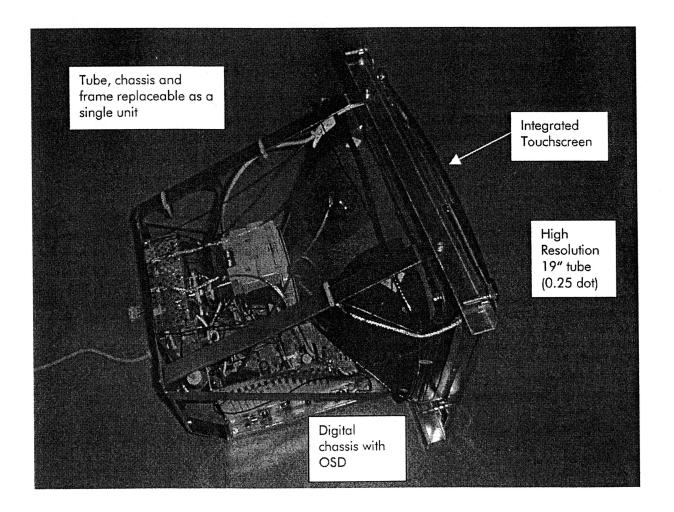
The pre-set sensitivity LOW, STANDARD, HIGH and INHIBIT is then signaled by the relative LED.

The SELECT Key should be pressed until the LED 4 burns.

When the LED 4 extinguishes, the NV4 will reject the banknote of the blocked channel.

3.4.6 Touchscreen

Monitor Module



General:

Technology:

Resolution: Speed:

Active contact area:

Transmittance:

Surface Acoustic Wave

4095 x 4095 contact points plus Z-axis

At least 100 contacts per second

Whole Screen

100%

Sensor description

Sensor: Integrated on-screen (iTouch). No parallax error. No drift. Not affected by static discharge. Functions without earth

connection. Does not average out double touches.

Serial controller:

Installed in the monitor module and powered from the chassis.

Communication: By-directional via a serial RS 232 interface.

• Sensor repair:

The transducers are repairable by a qualified technician.

• Operational safety:

MTBF:

More than 80 000 hours

FCC - registration:

Class A

Service Life:

More than 5 Million contacts on any individual

point.

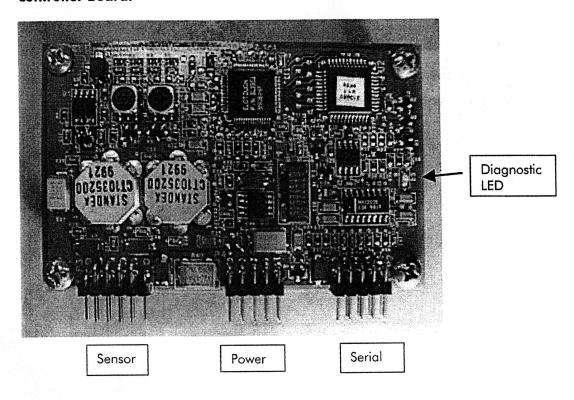
Operating temperature:

Controller card 0°C to 55°C

Relative Humidity: Storage temperature: 0 – 95% non-condensing Controller minus 20°C to 85°C

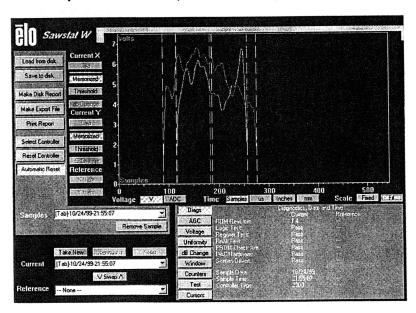
All marks are registered trade-marks of the respective manufacturers.

Controller Board:



The following touchscreen diagnostic Programs are available:

Sawstat (Windows 98/NT): General diagnostics



Comdump: Com Port test

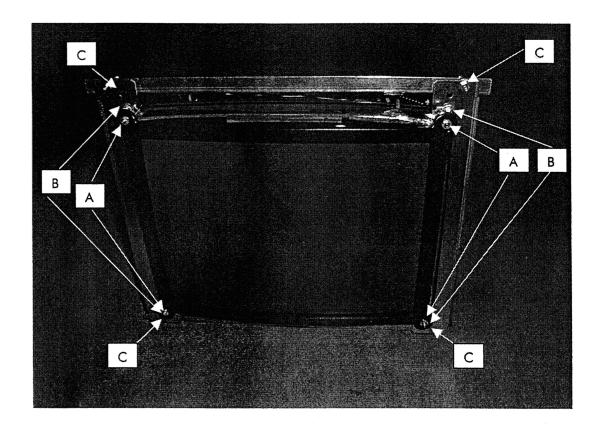
Sawdump: Function Test and Save to disc

```
SAWDUMP 1.00 - IntelliTouch(R) Diagnostic Utility for funworld
 Copyright (C) 2000 Elo TouchSystems, Inc. All rights reserved.
2500S (S/N SST3A3E343035) SmartSet controller found at above settings.
Controller Test Results:
     ROM Revision:
                     1.5-0.0
                                        Ctr 1, Reported:
                                                                0
     Logic Test:
                     Passed
                                        Ctr 2, Interrupted:
                                                                0
                                        Ctr 3, Incomplete:
                                                                0
     Register Test: Passed
                                        Ctr 4, Not Acceptable: 0
     RAM Test:
                     Passed
     ROM Test:
                                        Ctr 5, Relearned:
                     Passed
                                                                1
     DAC Test:
                     Passed
                                        Ctr 6, Autosized:
                                                                0
     Screen Drivers: Passed
                                        Ctr 7, TouchEvents:
                                                                0
     X AGC Level:
                     25:137
                                        Ctr 9, S/N Ratio for X:45
     Y AGC Level:
                     20:175
                                        Ctr 10,5/N Ratio for Y:45
IntelliTouch diagnostic data saved to disk in 20000920.SWV.
```

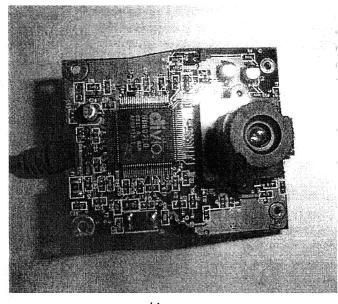
Monitor Minibezel:

The minibezel is field replaceable

- A: Minibezel fixing nuts remove to release minibezel
- B: Monitor tube fixing screws remove to replace tube
- C: Monitor adjusting screws release locknuts, then adjust using a hexagon key, retighten lock nuts.



3.4.7 Camera



your general importer.

USB Webcam (Non functioning under DOS)

Sensor	250K pixels color CCD
Pixels	640 x 480 (H x V) software enhanced
Focal Range	Manual, 1cm ~ infinity
Shutter Speed Range	1/10 - 1/14,500 of a second
Lens F/No.	2.0
Viewing Angle	60°
Interface	Full speed USB
Power	Supplied by PC through the USB port
	Pixels Focal Range Shutter Speed Range Lens F/No. Viewing Angle Interface

However, should problems occur you will have to locate and correct the error by means of the following **TROUBLESHOOTING** list or the service technician of

3.5 Troubleshooting list, frequent errors:

Screen is dark, fan not running	Chack Power supply
Screen is dark, ian not running	Check Power supplyCheck fuse in line filter (3.15 A)
Screen is dark, fan is running, Chassis LED is	Check that monitor is switched on (PCB switch
off	under tube – Green LED should be lit)
	Check Power supply connection to monitor
	Check fuse on chassis PCB (3.15 A)
Screen is dark, Chassis LED is orange (no	Check VGA cable
signal)	Check VGA signal from computer box
Screen is dark, LED of hard disk frame is	By turning the potentiometer (brightness) on the
illuminated	line transformer, check if the chassis is working
이 가는 사람이 살아 가장하는 것이 없었다.	(if OK → screen gets bright and lines become
	visible)
	If this does not help either, replace the
Screen OK touchescreen not appreting	motherboard.
Screen OK, touchscreen not operating.	Check the diagnostic LED on the controller board:
	No LED activity: check controller power supply
	(5V dc) or replace controller.
그 그 아이들이 가는 그리고 하는 옷이 없다.	Slow LED flashes + Continous when screen
	touched indicates touchscreen is ok, fault must
	be in serial cable or motherboard.
	Continuous or fast flashing indicates sensor
	fault: run ELO diagnostic program.
Screen OK, touchscreen doesn't work at some	Inspect the area for glass damage. (deep
points.	scratches only can effect performance)
	Re-calibrate the touchscreen in the set-up-menu
	Remove bezel and check seal is intact and that
	the sensors and or reflector pattern are not
	contaminated and that they are dry.
	Run ELO diagnostic program.
T L F	Replace the monitor tube if necessary.
Touchscreen Error	Check all connections of all TS-components and
	replace them if required. Run ELO diagnostic program
The unit crashes at various points in the	Replace the motherboard and monitor the unit
programme without obvious reasons.	(test main).
The unit stops at the yellow picture (funworld).	Replace the TS Controller
the drin dieps at the years we prototo (tattive har).	If this does not help, replace the motherboard.
The unit always crashes at the same point (for	Software Update
instance with the same game)	Replace the hard disk
The unit slows down progressively during	Replace hard disk
playing, possible even stopping.	Replace motherboard
No sound	Check all cable connections and check if the jack
	plug is inserted in the "speaker" socket.
	Replace motherboard if required.
The unit does not register money insertion, but	· · · · · · · · · · · · · · · · · · ·
coins drop into the till	Check the cable connection between coin control
	and motherboard.
The unit does not accept any money	Check the cable connections between coin
	control and motherboard.
DISK BOOT FAILURE IN SECTION	Replace the motherboard, coin check if required.
DISK BOOT FAILURE, INSERT SYSTEM DISK	,
AND PRESS ENTER.	plugged into the motherboard and replacement
	frame.
	Check the power supply to the hard disk. Check the PIOS and force.
	Check the BIOS settings

	Remove hard disk and connect directly with the ribbon cable. If the error message fails to occur, exchange replacement frame, otherwise replace hard disk.
A CRITICAL ERROR OCCURRED !!! MODULE: C:\EXE\MASTERS.EXE DATE/TIME: 31.01.2000 17:07 ERROR DESCRIPTION NO TEXT FOUND FOR >MSTRNGL< IN RESOURCE \MASTERS\RESOURCE\TEXT.I	Replace hard disk or C-Dongle if required.
PLEASE WRITE DOWN MODULE AND ERROR DESCRIPTION AND REPORT THIS ERROR TO A PHOTO PLAY CUSTOMER SERVICE. PRESS AND KEY TO TERMINATE PROGRAM	

Any commercial SVGA monitor can be connected to the VGA port (check to determine if monitor and motherboard are OK). The touchscreen function is only available on the Photo Play iTouch Monitor.

3.5.1 Troubleshooting banknote reader NV4

Fault Description	Search Help	Fault Removal
The banknote reader accepts no	Is the front plate illuminated?	Check for electric power on the
banknotes.	Is the internal connector lead	equipment. Check the supply
	plugged in?	leads
, · · .		(Voltage surges?, Power supply
		unit correctly parameterized?)
The banknote reader runs slowly	Check for any structural damage.	
or in fits and starts.		
	Check the insert and pass-	
	through spaces for foreign	Carry out all round cleaning
	bodies.	routines.
	Have the conveyor rollers been	(Voltage surges?, Power supply
	contaminated by oil or grease?	unit correctly parameterized?)
Banknotes are accepted but no	Is the wiper switch at the TEACH	Select the appropriate channel
credit signal is given.	position?	and re-program.
	Banknote acceptance: is the	(Voltage surges?, Power supply
. 2	wiper switch set to the RUN	unit correctly parameterized?)
	position?	
The banknote reader can be		Check the plug connection to the
programmed but does not accept		automat.
banknotes.	•	
~	Are the block lines switch	Check the block lines ("LOW" =
	released?	acceptance).
	Is the intermediate cashier/till	Check the interface.
	connection switched off?	
Otherwise correct banknotes are	Have the appropriate obverse	Re-program.
rejected.	and reverse sides or the	
•	directions been correctly	Re-select the band width from
	programmed?	HIGH to STANDARD or LOW.
		(Voltage surges?, Power supply
	Is the band width too narrow?	unit correctly parameterized?)
The banknote reader mistakes		In cases of doubt, erase the
the credits of those banknotes		relative channels and re-
inserted.		program. Ensure, that the
		banknotes are inserted straight
		and centered.
The banknote reader can only be	Check, that the banknotes are	Sort the banknotes before
programmed with difficulty.	properly sorted.	programming; if necessary,
		replace with banknotes in a better
	Check for damaged banknotes.	condition.
		9 10/100
	Age of the second secon	(Voltage surges?, Power supply
		unit correctly parameterized?)



Solution:

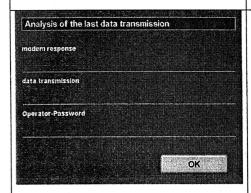
The modem was not found!

- Check if the modem is ready:
 - 1. is the status light illuminated(at Barry and Smart the machine must be opened)?

The modem is off or there is a fault with the voltage supply.

- 2. Is the serial plug fixed on the modem?

 [The computer gets no connection with the modem.
- Check the Bios settings
 - 1. Check the adjustments of the Mainboards: n(see Bios settings)

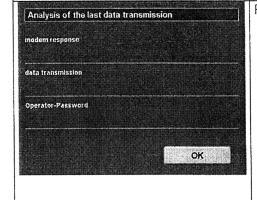


Response: NO DIALTONE

This message means, that there is no dial tone/outside line and it is only valid, if no number for an outside line is used!

- Check the plug connections
 - 1. Is the telephone cable plugged in the Line entry of the modem (the plug must be engaged)?
 - 2. Is the telephone cable plugged in the telephone socket. Here must be noted the country specific standards.
- Check the telephone cables / modem cables
 - 1. Measure the individual cables with a through tester. Here must be noted the country specific coverage of the cable.
 - 2. Control Sie if the plugs are fixed on the end of the cable.
- Test all machines (telephone, fax,...) which are connected with the telephone plug.
 - 1. Check, if you get a dial tone from your telephone or fax.

Probably the telephone cable has been plugged in wrong in the telephone plug.



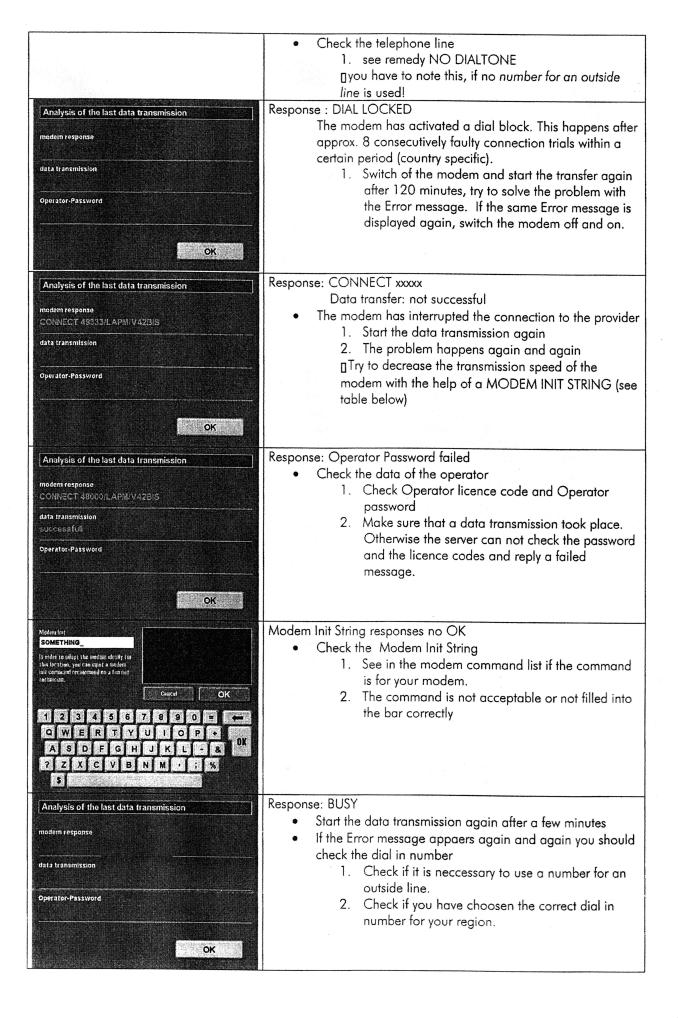
Response: NO CARRIER

There is no connection, or the carrier is lost.

- Start the data transfer again
 - Start the data transfer again, if you should get the same Error massage, wait 10 to 15 minutes until you start the next data transfer.

reprobably there is a problem with the provider.

- Check the dialling number
 - 1. Go into Photo Play net registration and control under the point How the machine dials in? the displayed dialling number. If you are not sure, that the dialled number is right, simply dial with the telephone (which is plugged in the same telephone socket as the Photo Play) the telephone number and see to it if you hear an other modem (whistle and squeak) on the other line.



Command input:

All commands transferred to the modem must commence with the ASCII characters AT or at (not permitted: At or aT) Several command can be linked up suffixing the second Init command to the first Init command without AT or at (for instance ATS8=1 and ATLO becomes ATS8=1LO)



If a MODEM INIT STRING is filled into the bar, it is usefully to press the TEST-BUTTON (ENTER key on the right side). If the program replys with OK the command is acceptable for this modem. If the program doesn't reply with OK, the MODEM INIT STRING is filled in not correctly or not acceptable for this modem.

Nr.		Elsa ML 33,6 TQV	Elsa ML 56k A	Elsa ML 56k pro/ i	Elsa Tang	Diamond SE 56 e pro	USR Sportster Voice	Speedcom (Rockwell chipset)
		3,6	6k A	6k p	010	SE 5	ster	n (Rc
		Q		ŏ	8	6 e	<u>\</u> و	čky
		_				pro	ce 5	<u>è</u>
							56k	chip
					ISDN			set)
1	ATS8=n "delay time after number for	Х	Х	Х	Χ	Х	Χ	
	external line "	^		^		^	^	
	n is the delay factor in seconds.							
	valid values: 08 Sekunden							
	standard value: 5 Sekunden *							
2	& "flash key"	X	X					
	flash key (only for tone dialling), just by old telephone centres instead							
	of "0". This must be inserted into number for external line.	N/				37	.,,	
3	AT&F "load standard configuration" The modem loads the factory defaults.	Х	X	Х	Χ	Х	Χ	
4	ATIn "outputs product information"	Х	Х	Χ	Х	Х	Х	
	Outputs product informations (f.e.: product name, firmware							
	version,).							
<u></u>	valid values : 110 ATLn "volume control"	V	V	V			V	
5	This command is to set the volume.	^	^	Λ		Λ_	Λ	
	ATLO: low loudness level							
	ATL1 : low loudness level							
	ATL2: medium loudness level *							
6	ATL3 : high loudness level ATMn "loudspeaker control"	X	Χ	Х		Χ	Y	
Ü	This command controls the speaker activity.					/*		
	ATM0 : speaker always OFF							
	ATM1 : speaker on by the connection process *							
7	ATM2 : speaker always ON ATXn "Dialing Type and CONNECT	Х	Х	Х	Х	Х	Х	
,	Result Codes"		 ^	^		^	^	
	This command sets the dialling type. With ATX2 or ATX4 the modem							
	waits for a dial tone before it starts to dial. With ATXO, ATX1 and							***************************************
	ATX3 the modem doesn't wait for a dial tone, it is blind dialling. Additional this command sets if the modem recognice a busy signal							
	and returns the message BUSY or if it doesn't recognise the busy	***************************************						
	signal, returns the message NO CARRIER and stops the trial.							
,	ATX0 : ignore dial tone / busy signal							
	ATX1 : ignore dial tone / busy signal ATX2 : wait for dialtone / ignore busy signal							
	ATX3 : ignore dial tone / note busy signal							
	ATX4 : wait for dial tone / note busy signal *							
						-		
	ATTENTION: If a number for external line is used, the program will automatically add the command ATX3!					-		
8	ATS6=n "delay time before blind dialling"	X	Х	Х		Х		
-								

Manager and a second								
1	 orld reserves the right to perform programme and/or technical modifications!	1		1				1

_								
-	This command sets the time before it starts to dial with blind dialling							
-	(see ATX0, ATX1 and ATX3).							
	valid values : 36 seconds							
	standard value : 3 seconds *							
	ATS7=n "waiting for carrier"	Х	<u>X</u>	Χ		Χ		
	This command sets the time how long the calling modem waits for the							
	carrier. If the modem doesn't get a carrier in this time period it hangs							
	up.							
	valid values: 1255 (1/10 second)							
	standard value : 50 (seconds) *							
)	AT\$10=n "delay from lost carrier"	Χ	X	X		X		
	The time your modem waits for a carrier to return before							
	disconnecting. A long enough time allows the remote modem's signal							
	to momentarily disappear without making your modem disconnect.							
	valid value: 1255 (1 second)							
	standard value : 14 (1,4 second) *							
1	ATS64=n "sending level"	Х	Х	Х				
	This command sets the sending level of the modem.							
	valid values : 1015 (-dB)							
	standard value : 10 (-dB) *	14						
2	AT+GCI=04&F "change country setting to			X				
_	activate puls dialling"							
	With this command the actual country setting of the modem will be							
	changed to the german modem setting. By all the outher country							
	settings (France, Italy,) the pulse dialling is deactivated because of							
	the local laws. If the modem settings are setted to german, the modem							
	allows pulse dialling.							
3	AT&Pn "activate pulse dialling for US Robotics"						Х	
	This command sets pulse (rotary) dialling for US Robotics modems.							T
	n = 0 pulse dialling disabled *							
	n = 1 Denmark, Germany, Austria, Finland, Switzerland,							
	Netherlands, Italy, South Africa, Czech Republic							
	n = 2 France, UK, Belgium, Ireland, Spain, Portugal,							
	Australia, Asia, Korea							
	n = 3 Norway						7	
	n = 4 New Zealand							
	n = 5 Japan							
	n = 6 Sweden							
4	AT+MS=Vn "select modulation"			X				
7	This command sets the modulation type of the modem.							T
	valid values for Vn:V90 *							
	V34							
	V32B							
	V32							
	The transmission speed will be controlled by the modem. It depends							
	on the line quality.			***************************************				
	of the fine quality.							***************************************
						ŀ		
							-	***
							-	CONTRACTOR DESCRIPTION OF THE PERSON OF THE
					***************************************	***	- Company of the Comp	
						***************************************		маническая
5	AT+MS=Vn, <automode>,<min_(tx_)rate>,<max_(tx_)rate>,<mi< td=""><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td></mi<></max_(tx_)rate></min_(tx_)rate></automode>			X				
	n_rx_rate>, <max_rx_rate></max_rx_rate>					4		
	"select modulation (extendet)"						ř.	
					-	-	and the second s	
				decisions	**************************************	Managanani	Мананичного	-
					Name of the last o	NAMES OF TAXABLE PARTY.	to passignada de de la constanta de la constan	
	rld reserves the right to perform programme and/or technical modifications!		-		and the same of th	7,53	Vincent Control	
		1						-

•

				·····		
	automode this parameter is an optional numeric value that enables					
	or disables automatic modulation.					
	min (tx_)rate,max_(tx_)rate,min_rx_rate,max_rx_rate is an optional					
	number that specifies the highest/lowest rate at which the modem may					
	establish a connection.					
	A value higher than "0" sets the maximum bit rate in bit/s what the					
	the contract of the contract o					
	modem tries to connect.	-				
		***************************************			1	
	valid values for automode:	and the same of th				
	0 automode-function OFF (fixed data speed, min_rx_rate					
	and min_(tx_)rate is not neccessary)					
	1 automode-function ON *	2.00				
	나는 그는 그를 보기하는데 그 아이들을 들었다. 그는 그를 내려가 되었다.					
	valid values for				1	
	min_(tx_)rate,max_(tx_)rate,min_rx_rate,max_rx_rate:				400	
	0 (automatic dataspeed)				design	
	300					
	4800					
	9600					
	14400 (only V34, V32bis)					
	19200 (only V34)					
	24000 (only V34)					
	28800 (only V34)					
100	33600 (only V34)					
	Example: If the modern has to connect with modulation type V34					
	by a data speed of 28800 bit/s and the automode function has to					
	be OFF, than the following command is necessary:		-			
	AT+MS=V34,0,28800,28800					
16	AT%G1%Bn	XX				
'	This command is used to fix the dataspeed of the modem to a fixed					
	value.					
					1	
	9600					
2	14400					
	19200	1		1 1		1 1
			1		-	1 1
	24000					
	24000			,		
17	28800 33600	1978.55 T			X	
17	28800 33600 AT+MS=n "select modulation"				X	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem.				Х	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)				Χ	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)				Х	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32)				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality.			- (a 2 ° 2 ° 2 ° 2 ° 2 ° 2 ° 2 ° 2 ° 2 ° 2	X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality. example: If the modem has to make a connection with the V34				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality.				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality. example: If the modem has to make a connection with the V34				X	
17	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality. example: If the modem has to make a connection with the V34 protocol. AT+MS=11				X	
	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality. example: If the modem has to make a connection with the V34 protocol. AT+MS=11 AT+MS=n, <automode>,<min_rx_rate>,<max_rx_rate< td=""><td></td><td></td><td></td><td></td><td></td></max_rx_rate<></min_rx_rate></automode>					
	28800 33600 AT+MS=n "select modulation" This command setts the modulation type of the modem. valid values for n12 (V90)11 (V34)10 (V32bis)9 (V32) The transmission speed will be controlled by the modem. It depends on the line quality. example: If the modem has to make a connection with the V34 protocol. AT+MS=11					

automode this parameter is an optional numeric value that enables				1			
or disables automatic modulation.		-		-	Į		
max_Tx_rate, min_Rx_rate, max_Rx_rate is an optional number that		1		l			
specifies the highest/lowest rate at which the modern may establish a					- [
connection.		- 1		l	1		
connection.		.	l	1		1.	
	1		1				
valid values for automode:	1	1	i	- 1			
0 automode-function OFF (fixed data speed, min_Rx_rate				1		*	
is not neccessary)							
1 automode-function ON *			l		-		
1 dolomode-forchorf Of C		l	1	1			
					ı	ı	
valid values for:		1		ı	ı		
<min_rx_rate>,<max_rx_rate>,<max_tx_rate>:</max_tx_rate></max_rx_rate></min_rx_rate>			1		.		
300		1					
4800				ı			
9600		1		- [l		
14400 (only V34, V32bis)					1		
					.		
19200 (only V34)							
24000 (only V34)							
28800 (only V34)							
33600 (only V34)							
Example I: If the modem has to connect with modulation type V34							
by a data speed of 28800 bit/s and the automode function has to				-			
be OFF, than the following command is necessary:						1	
AT+MS=11,0,28800,28800			-		1.		
Example II: If the modem has to connect with modulation type V34 by							
a data speed between 300 and 28800 bit/s and the automode							
function has to be ON, than the following command is necessary:							
AT+MS=11,1,300,28800				1			
19 AT\$IBP=x "operation mode of B-channel"				Х			
				^			
This command sets the operation mode of the ISDN adapter.			1.0				
If this command is not used, it tries to connect with ISDN protocol X75.							
		ı		1	1		
valid values for x: X75							
valid values for x: X/5 V120							
V120							
V120 HDLC	-						
V120 HDLC HDLCP				v			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing				X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"MSN" "setting the outgoing Multible Subscriber Number (MSN)"			1 de	X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"MSN" "setting the outgoing Multible Subscriber Number (MSN)"				X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command				Х			
V120 HDLC HDLCP 20 AT\$ICLI=0,"MSN" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for DS\$1-protocol (Euro-ISDN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing	1 1		- 1	X		200	
V120 HDLC HDLCP 20 AT\$ICLI=0,"MSN" "setting the outgoing Multible Subscriber Number (MSN)" This command is only for DSS1-protocol (Euro-ISDN). This command sets the Multible Subsrciber Number (MSN) which is sent by outgoing calls.				Х			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for DS\$1-protocol (Euro-ISDN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it.			4-2	X			
V120 HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it. The number may contain of 20 digits maximum.				X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it. The number may contain of 20 digits maximum. Example: The I\$DN adapter must have the M\$N 231.				X		10 mg	24
V120 HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it. The number may contain of 20 digits maximum.				X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it. The number may contain of 20 digits maximum. Example: The I\$DN adapter must have the M\$N 231.				X			
V120 HDLC HDLCP 20 AT\$ICLI=0,"M\$N" "setting the outgoing Multible Subscriber Number (M\$N)" This command is only for D\$\$1-protocol (Euro-I\$DN). This command sets the Multible Subsrciber Number (M\$N) which is sent by outgoing calls. Especially by internal Telefone centres it is often neccessary to set it. The number may contain of 20 digits maximum. Example: The I\$DN adapter must have the M\$N 231.				X			

3.5.4 General modem responses:

	Control of the Contro
response:	meaning:
OK	a command line has been executed successfully
ERROR	Sent during an attempt to execute a command line if any of the following
	conditions occur:
	1) the command line contains a syntax error.
	2) the modem cannot execute a command contained in the
	command line, i.e., the command doesn't exist or is not
	supported.
NO CARRIER	Is sent when the modem auto-disconnects due to loss of carrier.
NO DIALTONE	For X2 and X4, the modem has been instructed to wait for dial tone during
	dialling but none is received.
BUSY	For X3 and X4, if busy tone detection is enforced, the busy (engaged)
	signal is detected on the line when the modem is attempting to originate a
	call
CONNECT 48000	The modem has connected to the line, the speed is 48000 bit/s.
NO ANSWER	The called modem doesn't answer
DELAYED	For X4, sent when a call fails to connect and the number dialled is
	considered "delayed" due to country blacklisting requirements.
SYS_CRASH	The machine hang up during the data transmission
PPP ABORT	Problem during the dial in process, usually depends of the ISP

3.5.5 Modem glossary

Asynchronous Datatransmission

Data transmission one character at a time, with intervals of varying lengths between transmittals; start and stop bits at the beginning and end of each character control the transmission. Compare to synchronous transmission.

AT-Command

With the help of AT commands the computer can communicate with the Modems (AT command set).

B-Channel

In ISDN, a full-duplex, 64 Kbps channel for transmitting audio, video, and data between terminals (transfer channel).

Basis Rate Interface

The Basis Rate Interface is a normal ISDN connection. Every Basis Rate Interface has two Use Channels and a Control Channel.

BIT

binary digi

The units--0 or 1--used in the binary numbering system.

a Bit is the smallest binary basis mode with which the conditions 0 = off and 1 = on can be shown.

Bit/Sec

Measurement unit for transmission speed over data communications lines.

Client

A distributed system model of computing that brings computing power to the desktop, where users access resources from servers.

COM-Port

Serial port. Modems get connected on the serial COM-Port of the computer.

D-channe

Data channel used in an ISDN interface to carry control signals and customer call data. In PRI, the D channel runs at 64,000 bits per second. The D channel provides the signaling information for each of the 23 voice channels (B channels).

Long-Distance data transmission

Data transmission between two computer. The computer are connected via telephone a line.

DECT

abbreviation for "Digital European Cordless Telephone". International Standard for wireless telecommunication.

Digital Switching Centre

The dialling process take place digitally instead of a mechanical dialling system.

Download

The receiving of data from a computer to another computer via telephone line. The opposite is Upload.

DSS1-Protocoll

Abbreviation for "Digital Subscriber Signalling System No. 1". it is the D-cannel-Protocoll of the Euro-ISDN-connection.

Duplex

A method for the datatransmission, data are sent in both directions. See also half Duplex and Simplex.

FA7

Abbreviation for "Endgeräteauswahlziffer". Also called terminal selection digit. It serves to distinguish various terminal units attached to the same Basis Rate Interface when using the 1TR6 protocol. This digit is appended to the dial number by the caller.

Email

Short for electronic mail; the transmission of written messages over communications networks.

Terminal

A terminal is a device like a modem, fax or a normal telephone.

Euro-ISDN

Since 1993 European standard for ISDN. At year 2000 it will remove the national ISDN standards.

Faxmodem

A Modem which is able the send and receive faxes.

Firmware

The internal software of a terminal (modem, fax). Nowadays it is very easy the remove the firmware of a terminal to a newer one.

Flash

A short interupt of a connection. A Flash (or R-Key or Softkey) is used in internal telephone centres for different processes.

FTP

The Internet application and protocol used to send complete files over TCP/IP services.

Half duplex

Both stations are able to transmit and receive. But not at the same time. One station is sending and the other one is receiving this time. See also Duplex and Simplex.

HDLC

Abbreviation for "High level Data Link Control", the data consists of USE Information and Control Information. Hybrid modem

ISDN Modem which can communicate to analogue and digital networks.

I/O-Address

Memory address in a computer system. Ports, sound cards, modems,... have a different memory address for inputs and outputs.

Pulse Dialling

Dialling Methode. There are sent small interrupts sent to the switching centre.

Initialisation String

AT Command

Internet

World wide biggest computer network, it consists of different services. For example: FTP, Gopher, Telnet and World Wide Web.

Interrupt

Neccessary for different periphery. With the help of an interrupt the processor interrupts its work and communicate with the periphery. Via the interrupt channel the processor communicate with the periphery.

ISA.

A bus system for the copmuter, it is on the mainboard and is synchron 16 bit data bus.

ISDN

Integrated Services Digital Network The recommendation published by CCITT for private or public digital telephone networks where binary data, such as graphics and digitized voice and data transmission, pass over the same digital network that carries most telephone transmissions today; provides 2×64 Kbps (2B + D) bi-directional data capacity.

ISDN-Karte

Plug-in-card for computers. Enables the data transfer between two different ISDN networks.

ITU

Abbreviation for "International Telecommunications Union".

Jumpe

Are small connections between two pins. Jumpers are on graphic cards, sound cards, ... and are for the hardware configurations.

IAN

Abbreviation for "Local Area Network". Local computer network which has the sice of a room a house or maximum a company area.

Mailbox -

Electronic mailbox, which sent and receive electrical mails.

Tone Dialling

Dialling methode. Short tone sequences are sent to the switching centres.

Modem

This mechanism connects a computer to a phone line so information can be sent from one computer to another, or the user can access an online service or the Internet. In view of the popularity of the Internet, a modern is now considered basic equipment and comes on practically all new computers. Most moderns come with fax capabilities.

Multiple Machine Connection

A connection on which more than one terminal can use the SO-Bus.

MRM

Abbreviation for "Multiple Subscriber Number". Defines a Multiple call number of a ISDN-Basis Rate Interface.

NTRA

Abbreviation for "Network Termination for Basic Access". It is the net terminal for an ISDN Basis Rate Interface

Using channel

An other definition of the B-cannel.

Offline

There is no connection between switching centre and the terminal you are using. The opposite is Online.

There is a connection between switching centre and the terminal you are using. There is a data transmission. The opposite is Offline.

Port

A port is used for the communication to an external device.

SO-Bus

Bus system for ISDN connections. On one SO-Bus it is possible to connect 8 terminals (ISDN modems).

SOLLine

International standard Line of the ISDN Basis Rate Interface (NTBA).

Interface

Connection between hardware and software. For example a serial port for the modem.

Simplex

The data transfer just take place in one direction. Thus just from the transmitter to the receiver or turned around.

Synchron

Form of usually high-speed data communication that uses synchronization bytes instead of start or stop bits to tell the receiving device about the coming transmission. More complex than asynchronous.

TCP/IP

Abbreviation for "Transmission Control Protocol/Internet Protocol", and is a protocol for the internet. TCP takes the feed of the data, IP cares about the address of the receiver.

Transmission speed

Specification for the data speed of a data transmission (Bit/s).

Upload

The computer is sending data into a network. The opposite is Download.

User

The User of an online serve.

V24

A ITU recommendation for the datatransmission into a analogue network with modems. Maximum data speed is 336000 bit/sec.

Dialling Process

Transmission of the dial information from a terminal to the switching centre of the telecom centre. Possible methods for analogue terminals are pulse dialling and tone dialling. Digital terminals like ISDN has a digital dialling methode.

Western Plug (AMP-Data connector)

Definition of a plug with 4 or 6 pin connection for analogue systems and 8 pin connection for ISDN terminals.

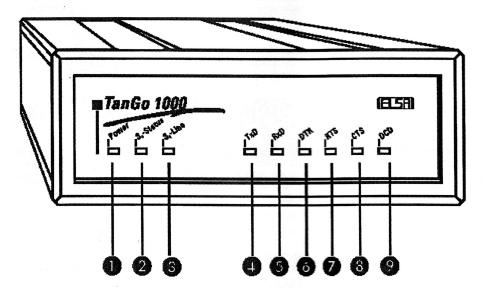
World Wide Web

Internet-Service with multimedia characteristic, Word Wide Web is the most popular internet-service in the internet.

X-75

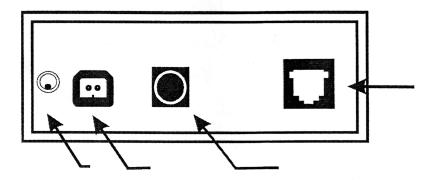
International standard of a connection protocol for datatransmission into the ISDN network.

The light emitting diodes (LEDs) indicate the status of the interface lines and the status of the modem.



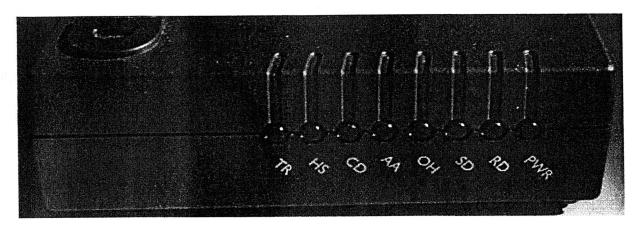
Item	Display	Interpretation
1	Power	Adapter switched on
2	SO Status	S0-bus enabled
3	SO Line	Adapter connected to line
4	TxD	Data from Photo Play to ISDN-Adapter
5	RxD	Data from ISDN-Adapter to Photo Play
6	DTR	Computer operational
7	RTS	Switch on sending unit
8	CTS	ISDN-adapter ready to send
9	DCD	Connection made

Rear view:



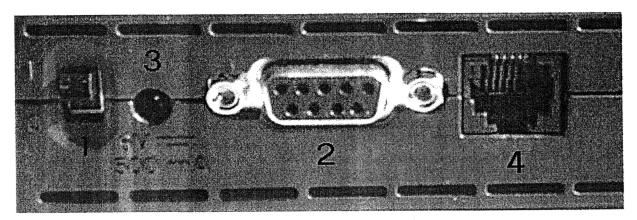
Pos	Interpretation
1	ON/OFF-Switch
2	Power supply
3	Serial cable to computerbox
4	Telephone plug

3.5.7 Diamond Supra Express 56e pro



Anzeige	Bedeutung			
TR	Terminal Ready	Terminal software is ready		
HS	High Speed	Connection between (32.000 bis 56.000 bps)		
CD	Carrier Detect	Modem is connected with an other modem		
AA	Auto Answer	Modem is ready for auto answer		
ОН	Off Hook	Modem is connected to the line		
SD	Send Data	Data from PP the modem		
RD	Receive Data	Data from modem to Photo Play		
PWR	Power	The modem is ready		

Rear View:



Pos	Interpretation
1	ON/OFF-Switch
2	Serial cable to computerbox
3	Power supply
4	Telephone plug

3.6 Part list Photo Play SPIRIT 2.1

Position	BG Computerbox	Assembly Computer Box	
)	[Metall]	Metal	
	Blechgehäuse Computerbox	Computer Box	7600002
2	Deckel für Computerbox	Computer Box Lid	7600003
	EMV Schutzblech für		0.00
3	Wechselrahmen	HDD Cover Plate	7600072
4	Slotabdeckblech	Slot Cover Plate	7200361
5	[Elektronik]	Electronics	
6	Motherboard 6WEV inkl. Kabelsatz	Motherboard 6WEV with cable set	7201122
7	32 MB SDRAM	32 MB SDRAM	7201113
8	CPU	CPU	7201114
9	CPU Lüfter	CPU fan	7201119
10	HDD 10,2GB	HDD 10,2GB	7201127
	Schaltnetzteil 200 W mit EMI Filter	PSU 200 W with Filter (UL)	7200276
11	(UL)	730 200 W WIIITTIIIeI (OL)	7200270
12	Parallel C- Dongle <finnland></finnland>	Parallel Dongle	7200157
13	Dongle f. Multifunktionskarte V98/1	Dongle for multifunction card V98/1	7200737
14	Wechselrahmen, Neu für Klappgriffe		7201139
	Wechselrahmen Einschub,	Exchangeable HDD, insert with	7201140
15	Klappgriffe	folding handle	7201140
16	Modem Diamond	Modem	7500060
17	LANkarte	LAN Card	7600066
18	[Kleinteile]	Misc.	
19	Abstandhalter	Spacer	7600063
20	Driller selbstklebend	Cable tie, self-adhesive	7006586
21	Kabelbinder klein	Cable tie, small	7001003
22	EMV Kontakt neu	EMC Contact, new	7200206
	gefu. Linsenschrauben M3x6,		
23	verzinkt	coated	7200373
	Linsenschraube M4x8 m.	Cross head screw M4x6	new
24	Kreuzschlitz		IICW
25	Monitormodul von Elo	Monitormodule, Elo	
26	BG-Monitor ELO i-Touch	Assembly, Monitor ELO i-Touch	7600049
27	BG Holzgehäuse	Assembly, Carcass	
28	[Holz]	Wood	
	BG Gehäuse komplett (inkl.	Assembly, Housing, Wood	7600041
29	Scharniere)		
30	Rollenhalterung komplett	Rollers, complete	7200633
31	Grundplatte Höhenverstellung	Levelling screws, baseplate	7200728
32	Höhenverstellschrauben	Levelling screws	7200730
33	[Metall]	Metal	
0.4	Befestigungsplatte für		7.00000
34	Schloßverriegelung	Fixing plate for lock	7600032
35	Klappenfeststeller	Upper Front Panel Stay	7600022
36	Monitorfeststeller	Monitor Stay	7600071
37	Linsenschraube M5x16 m. Kreuzschlitz	Cross head screw M5x16	new
38	Beilagscheibe 5,3 Verzinkt	Washer, Zinc Coated	new
39	Distanz	Spacer Spacer	new
40		Cashbox (no Cutout)	7600029
40	Kassenauszug (kein Ausschnitt) Linsenschraube M6x25 m.	Cross head screw M6x25	
41	Kreuzschlitz		new
42	Linsenschraube M6x30 m.	Cross head screw M6x30	new

	Kreuzschlitz		
43	Quergewindebolzen M6 x 12.5	Threaded insert M6 x 12.5	new
	Hebelschloß incl. Muttern und	Lock incl. Nuts and Securing washer	7200323
44	Sicherungsscheibe +2 Schlüssel	+2 keys	
45	Hebel für Schloß	Camplate for Lock	7200325
46	Halterung für Netzfilter	Mounting Plate for Mains Filter	7201087
47	Halter für Münzprüfer	Coin Examiner Bracket	7600020
48	[Elektronik]	Electonics	
49	Netzentstörfilter	Mains Filter	7201100
50	Münzprüfer	Coin Examiner	7600715
51	Lüfter	Fan	7200674
52	Linsenschraube M4x35 m. Kreuzschlitz	Cross head screw M4x35	new
53	Selbstsichurungsmutter M4	Self Locking Nut M4	7200330
54	Vorschaltgerät mit Fassung	Lamp Ballaset with Holder	7200217
55	Leuchtstofflampe	Compact Flourescent Lamp	7200218
56	Distanz	Spacer	7200342
57	[Kleinteile]	Misc.	
58	Münzschlauch	Coin Hose	7600045
59	Lüftergitter	Fan Cover	7200673
60	Driller m. Blindlochbef. Groß	Cable tie, Hole fixing, Large	7200035
61	Driller m. Blindlochbef. Klein	Cable tie, Hole fixing, Small	7200023
62	BG Front Panel oben	Assembly Upper Front Panel	, 200020
63	[Kunststoff]	Plastics	
	Front Panel Oben	Upper Front Panel	7600039
64	Kunststoff Seitenteil rechts u. links		7600037
65		Side Pieces, Right and Left Monitor Frame	7600033
66	Kunststoff Monitorrahmen	Logo, Vacuum Formed, Not Printed	7600037
67	Acryllogo ungedruckt (Tiefziehteil)		7600076
68	Logo Aufkleber	Logo sticker	
69	Acryllogo 'Milchglas'	Light Diffuser	new 7600077
70	Branding "Net Generation"	Branding "Net Generation"	7600077
71	Münzeinwurfprofil	Coin Entry Profile	
72	Rückgabeknopf Kunststoff inkl. Ring	Reject Button, incl. Fixing Ring	7200885
73	[Kleinteile] Dichtungsband f. Monitorblende	Sealing Foam Astorflex 4x6 mm	7200000
74	Astorflex 4x6 mm	Reject Button, Spring	7600075
75	Rückgabeknopf Feder	Bolt, M8x100	7600073
76	Imbus Schraube M8x100		7000044
77	[Metall]	Metal Palm Rest Plate	7600031
78	Lümmelboard Blech		7600057
79	Stützwinkel links	Angle Bracket, Left	
80	Stützwinkel rechts	Angle Bracket, Right	7600068
81	Hebelschloß DR625.008(STS kurz)	Lock, DR625.008, (STS Short)	7001901
82	Haken für Schloß	Camplate for Short Lock	7200326
83	Distanzstück für Schloß	Spacer for Short Lock	7600064
84	[Elektronik]	Electronics	7/00074
85	Lautsprecher (Mitteltöner)	Loudspeaker (Wide Range)	7600074
86	USB Video Camera	USB Video Camera	7600055
87	BG Front Panel unten	Assembly Lower Front Panel	
88	[Kunststoff]	Plastic	
89	Front Panel Unten inkl. Gummi	Lower Front Panel incl. Mat	7600040
90	Münzrückgabe mit Klappe	Coin Reject incl. Flap	7600052
91	Befestigungswinkel links	Fixing Bracket, Left	7600069
92	Befestigungswinkel rechts	Fixing Bracket, Right	7600070

93	Kabel (Kabelbaum)	Cable (Loom)	-2 1
94	Kabelbaum für Netzversorgung	Mains Cable Loom	7600082
		Counter, Book-keepin Button and	
95	Zählwerk und BH-Taster Kabel	Cable	7600080
96	Lautsprecherkabel	Loudspeaker Cable	7600079
97	Lüfterkabel	Fan Cable	7600085
98	Erdungskabel Netzfilter	Earthing cable, Mains filter	7200157
99	Erdungskabel Lümmelbord	Earthing Cable, Palm Rest	7600083
100	Erdungskabel Kassenauszug	Earthing Cable, Cashbox	7600086
101	Paralleles CC Kabel	Parallel CC Coin acceptor cable	7200105
102	USB Kabel (Kamera)	USB Cable, Camera	7600073
103	Netzanschlußkabel <finnland></finnland>	Mains Cable, Finnland	7001307
104	Modemkabel 20m <finnland></finnland>	Modem Cable 20m <finnland></finnland>	7500069- SP/GR
105	Finnland Adapter	Finnland Adapter	7500080
106	Y-Kabel mit Kaltgerätestecker	Y-Cable with IEC plug	7500016
107	Diverse Teile	Miscellaneous	
108	PE Flachsack, Transparent	PE bag, Transparent	7200741
109	Verpackung für PP-NG	Transport Carton for PP-NG	7600048
110	Fächerscheibe M3	Washer M3	7200377
111	gefu. Linsenschrauben M3x6, verzinkt	Self Tapping Metal Screw, M3x6,zind	7200373
112	Rändelschraube M4	Thumb Screw, M4	7200376
113	Gewebeband Tesa 4651 (x2.3m)	Fabric Tape,Tesa 4651 (x2.3m)	7200955
114	Div. Aufkleber u. Beschreibungen	Printed Articles	
115	Klebeetikette Buchhaltung <finnland></finnland>	Sticker, Book-keeping <finland></finland>	7200413
116	Aufkleber Warnschilder <finnland></finnland>	Sticker, Warning <finland></finland>	7200624
117	Länderkleber Dongle <finnland></finnland>	Sticker, Dongle Country Flag <finnland></finnland>	7200987 <i>-</i> Finn
118	Touchscreen Aufkleber <finnland></finnland>	Sticker, Touchscreen <finland></finland>	7200152
119	Währungsaufkleber <finnland></finnland>	Sticker, Coins accepted <finland></finland>	new
120	Gerätekleber/Update 2000	Sticker, Update 2000	7700084
121	Garantieaufkleber	Sticker, Guarantee	7200141
122	Lizenzbroschüre Update2000	Licence Broschure, Update2000	7700087
123	Installationsanl. Fun.net-Kit Aktivierungsanl. PP-Net	Installation Guide fun.net-Kit, Activation Guide PP-Net	7500103
124	Beschreibung <englisch></englisch>	Manual < English >	new

3.6.1 Options

Pos.	Article no.	FW-Order-no.	Description		
	Subject to change		Corner element kit (anthracite grey)120°		
	Subject to change		Corner element kit (anthracite grey) 90°		
	Subject to change		Corner element kit (anthracite grey) 60°		
	Subject to change		Corner element kit (anthracite grey) 45°		
	Subject to change Subject to change		Side table (anthracite grey)		
			Linking table kit (anthracite grey)		
	Subject to change		Wall board (anthracite grey)		
	Subject to change		LAN-PCI card		
	Subject to change		LAN-cable standard (5m) incl. plugs		
		Link-Kit per Photo Play NG (1 PCI card, 1 cable)			
			Start-Kit for 2 Photo Play (2 PCI cards, 1 cable)		

3.6.2 Accessories

Pos.	Artikel no.	FW-Order-no.	Description
	5002898	5002898	Data Print 3000
	5002884	5002884	Data Print paper
	7200672	7200672	Postcard
	7299998	7299998	Photo Play test stand (Robot)
1	7200792	7200792	Special drill ventilator curcular cutter 30-162mm
	7200231	7200231	Keyboard in keyboard bag from tool kit for Photo Play
	7200721	7200721	Token Photo Play
	7200183	7200183	TV Converter
	7200058	7200058	Tool kit Photo Play without keyboard
	7200070	7200070	Tool kit Photo Play incl. keyboard
	Subject to change		Update Station complete

3.7 Photos Front View

